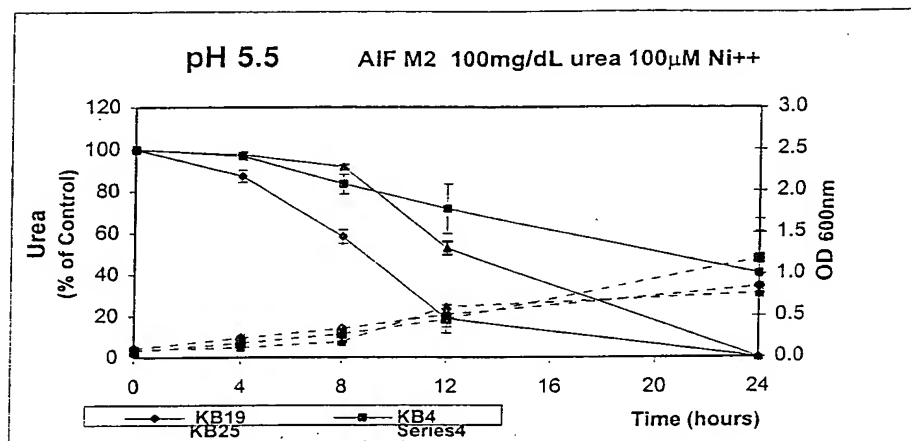


Survival of three *S. thermophilus* strains KB19, KB4, and KB25 in simulated gastric juice at pH 1.4, 2.0, 2.4, and 3.0.
Data are cfu/mL.

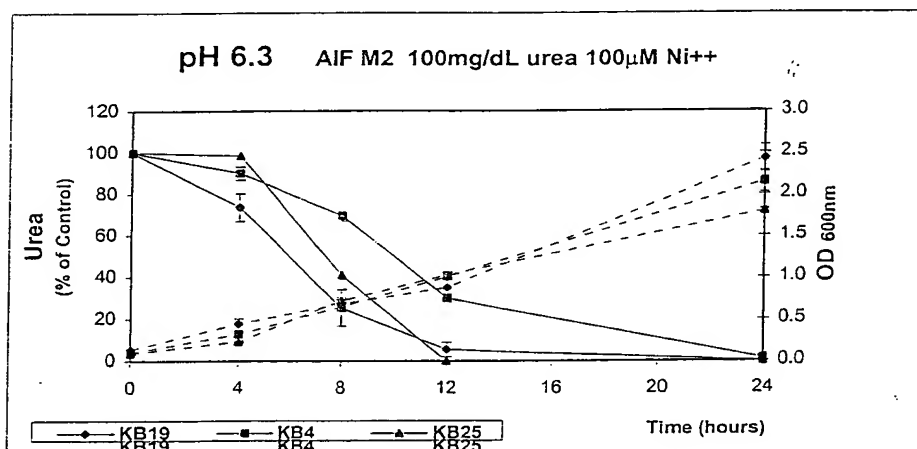
| pH | KB19 | | | | KB4 | | | | KB25 | | | |
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 1.4 | 2 | 2.4 | 3 | 1.4 | 2 | 2.4 | 3 | 1.4 | 2 | 2.4 | 3 |
| 0 hours | 10^{10} | 10^{10} | 10^{10} | 10^{10} | 10^{10} | 10^{10} | 10^{10} | 10^{10} | 10^{10} | 10^{10} | 10^{10} | 10^{10} |
| 1 hour | 0 | 0 | 10^4 | 10^8 | 10^3 | 10^3 | 10^5 | 10^{10} | 0 | 0 | ND | ND |
| 2 hour | 0 | 0 | 10^4 | 10^8 | 0 | 0 | 10^4 | 10^{10} | 0 | 0 | ND | ND |
| 3 hour | 0 | 0 | 10^4 | 10^6 | 0 | 0 | 10^4 | 10^9 | 0 | 0 | 10^6 | 10^7 |

FIGURE 1

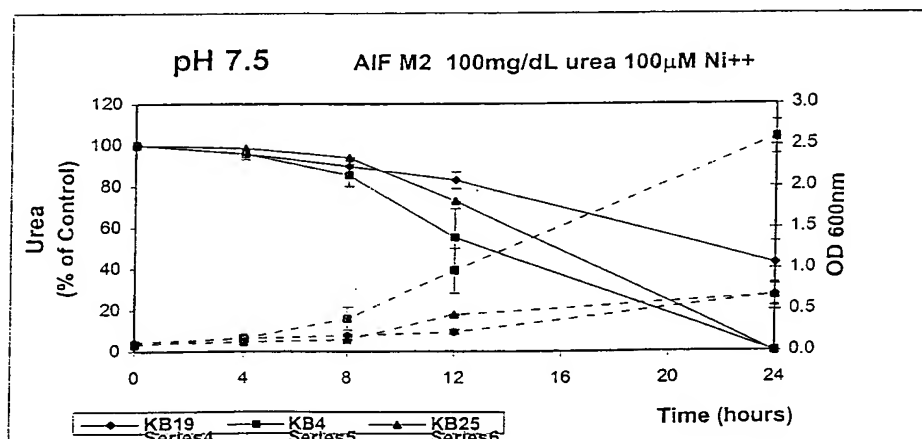
2A



2B

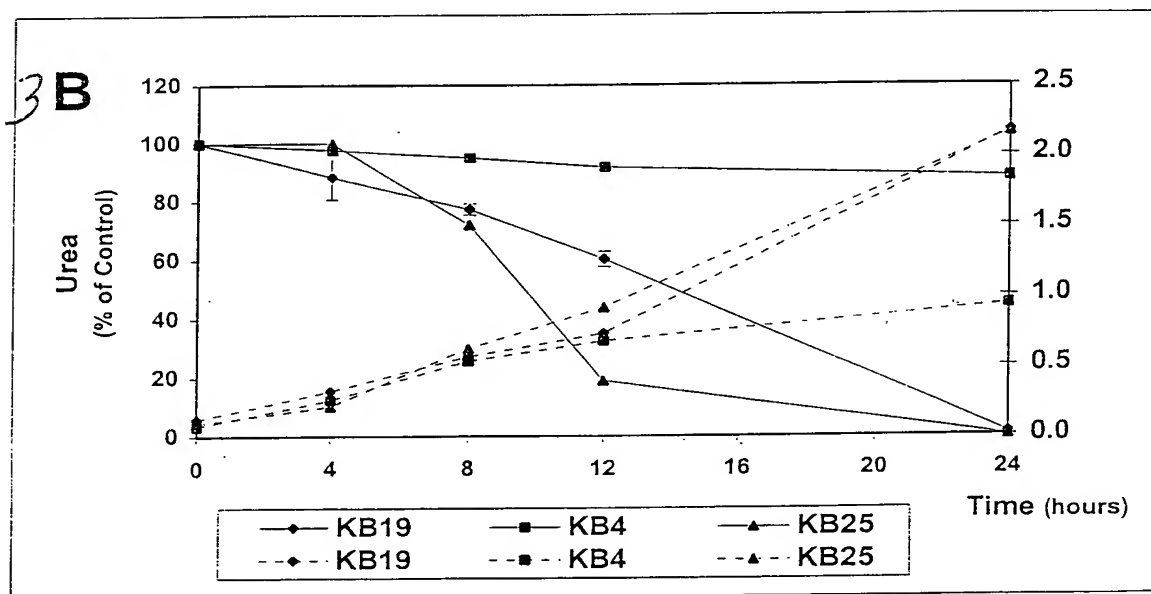
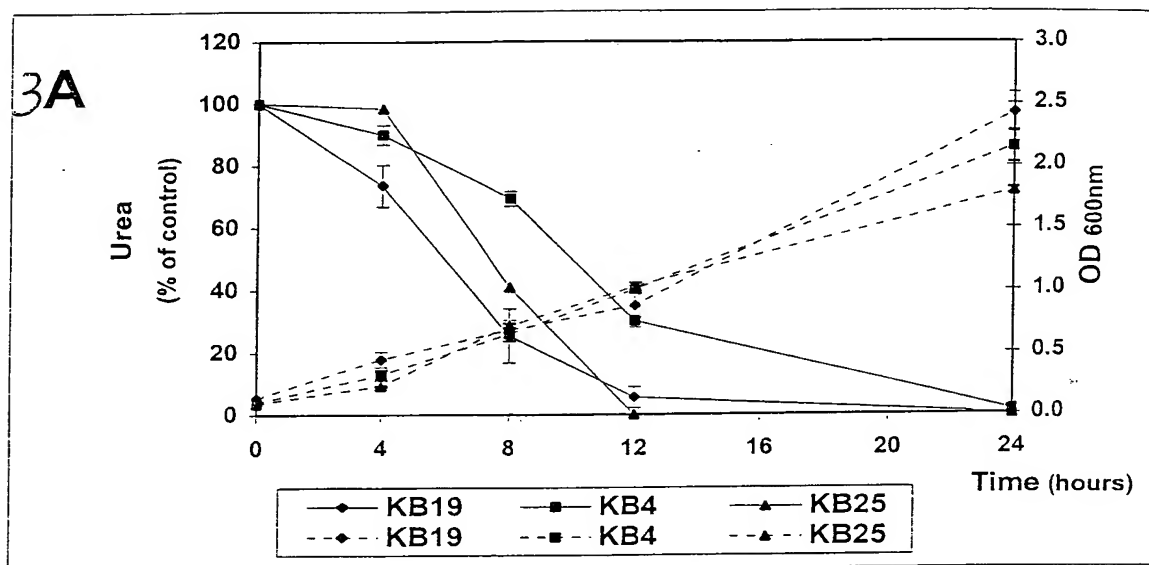


2C



Urea hydrolysis by three *S. thermophilus* strains at different pH
Data presented are mean \pm SEM, n= 3 - 9

FIGURE 2



Dependency of the rate of urea hydrolysis on the availability of Ni^{++}
 Data presented are Mean \pm SEM from 3 independent experiments

FIGURE 3

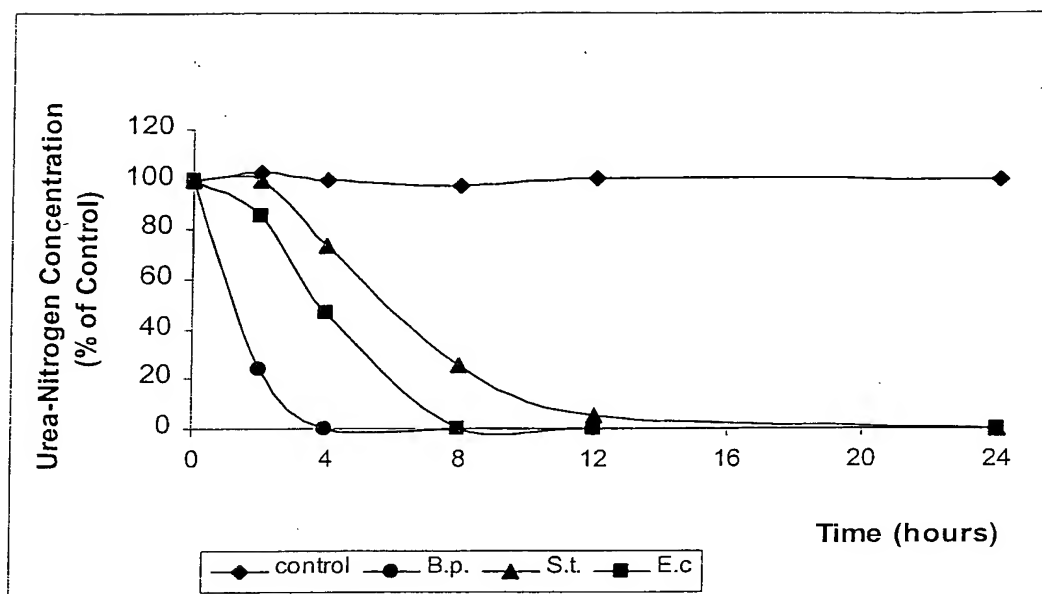


Figure 4. Ureolysis by *S.thermophilus* KB19, *Bacillus pasteurii* ATCC 6453, and *E.coli* strain DH5 α transformed with multi-copy plasmid bearing *Klebsiella aerogenes* urease operon.

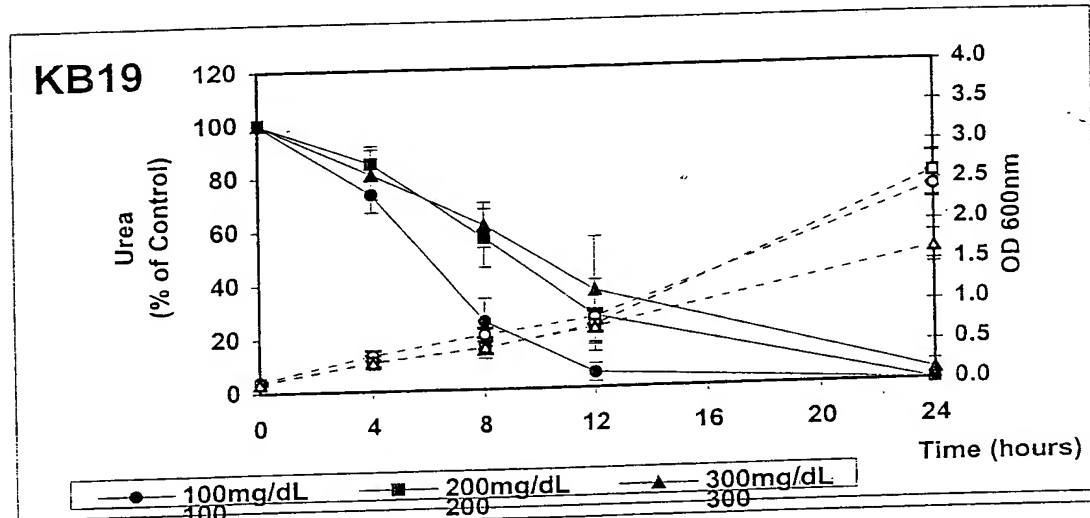
FIGURE 4

Urea hydrolysis by three *S.thermophilus* strains at concentrations of urea characteristic of uremic blood levels

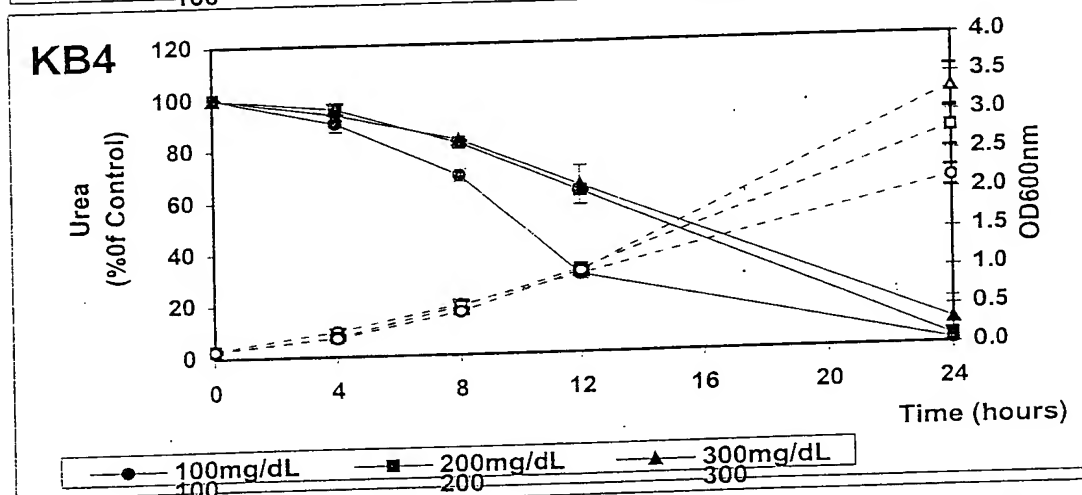
AIF M2 pH 6.3 100uM Ni

Data presented are mean \pm SEM, n=3-5

5A



5B



5C

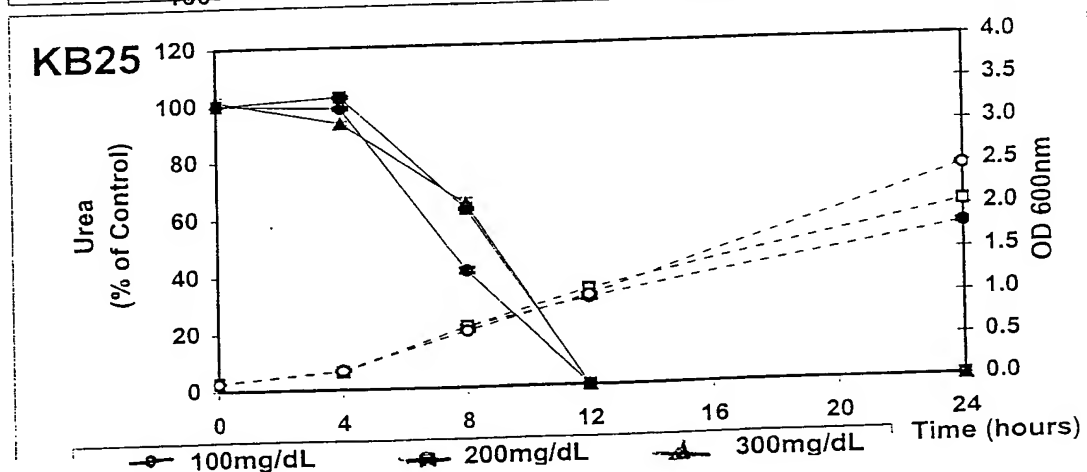


FIGURE 5